



AVEVAWORLD

ACCELERATE INDUSTRIAL INTELLIGENCE

AVEVA WORLD MILAN, MAY 2026

AVEVA Point Cloud Manager

The power of AI & cloud for reality capture visualization

Peter Richmond, Vice President – 3D & XR
AVEVA

AVEVA

Why do we Laser Scan?

Many facilities have no 3D model for spatial context.

Differences develop between the design and reality.

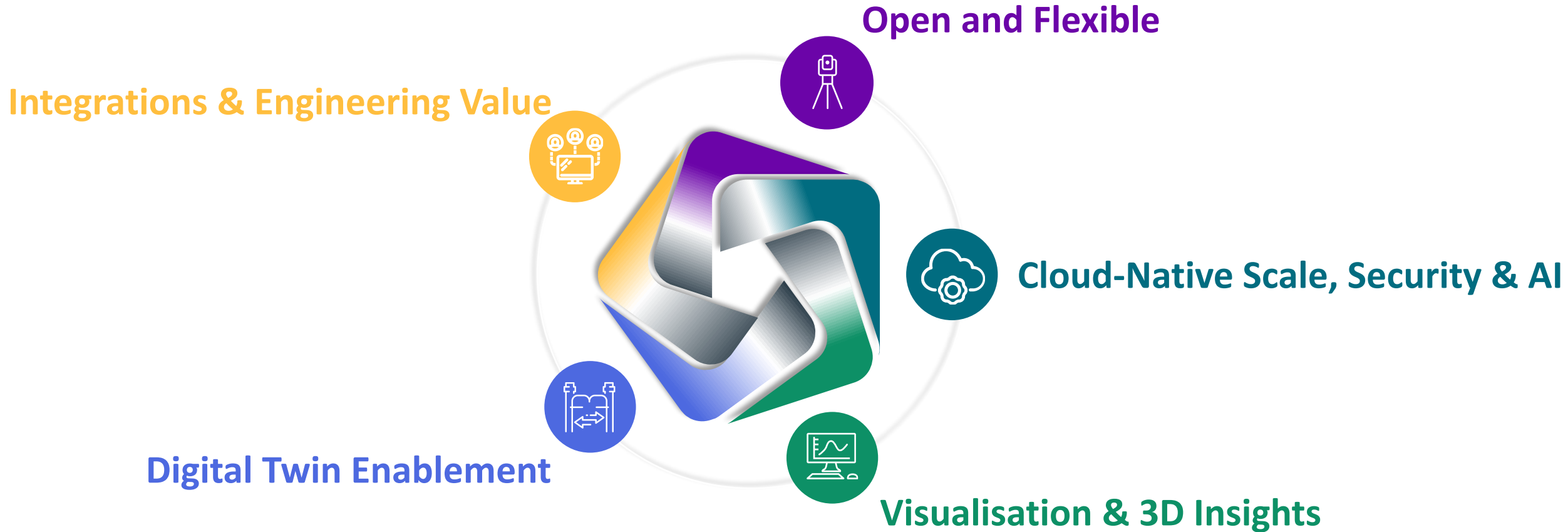
Poor decision making due to inaccurate information results in higher costs or lost revenue.

Rework on brownfield projects contributes up to 15% of project costs, ENR

Reality capture provides an opportunity to safely visualize, validate and make decisions.

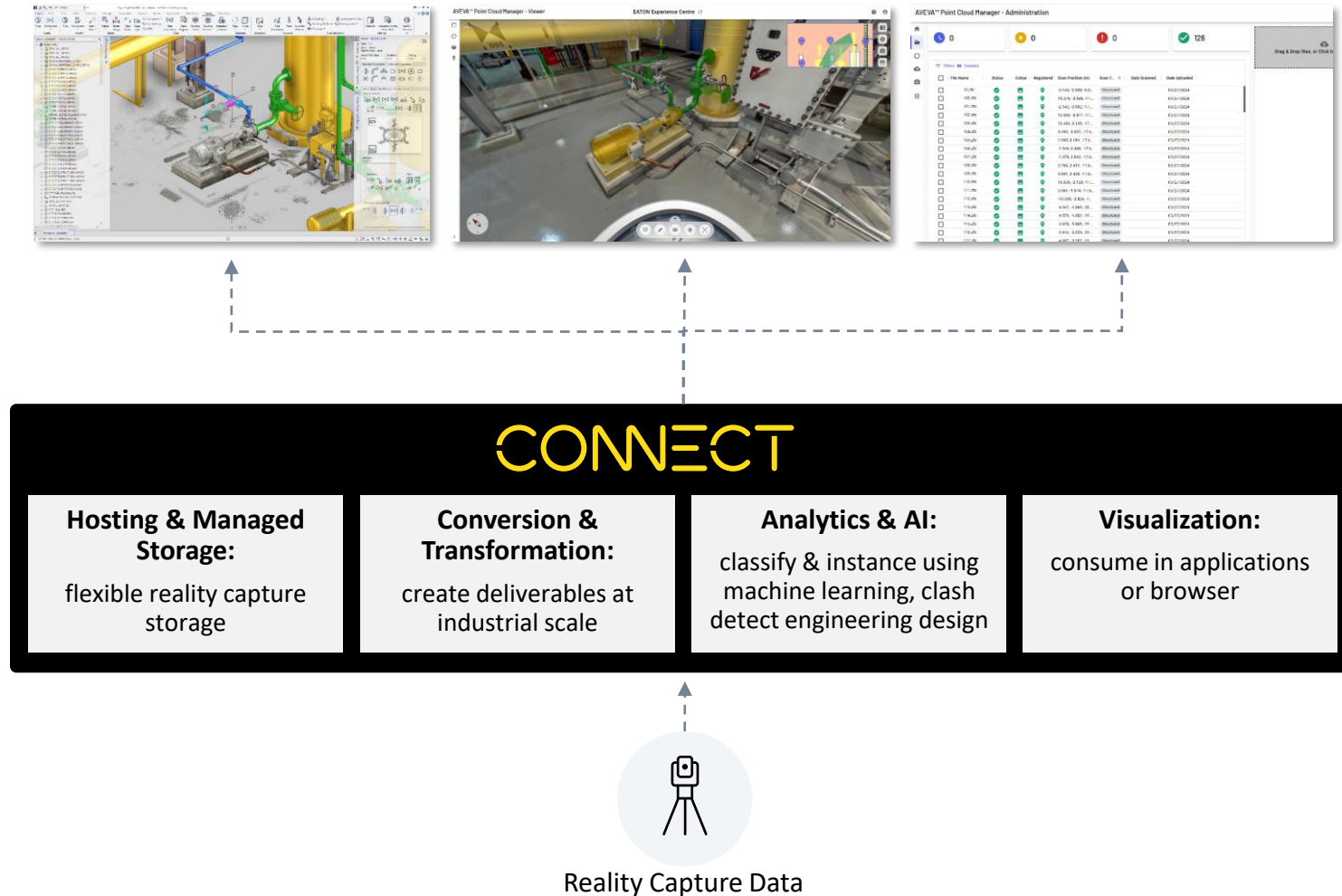


AVEVA™ Point Cloud Manager



CONNECT Value

Overcome the barrier to point cloud adoption



Consumption pricing calculated daily

Multi-tenant, scalable cloud infrastructure

Large file storage, archiving & sharing

Intelligent classification of point cloud objects

Visualization in Asset Information Management & CONNECT Visualization

Integration & data streaming into Engineering Design applications

Reality Capture Archive

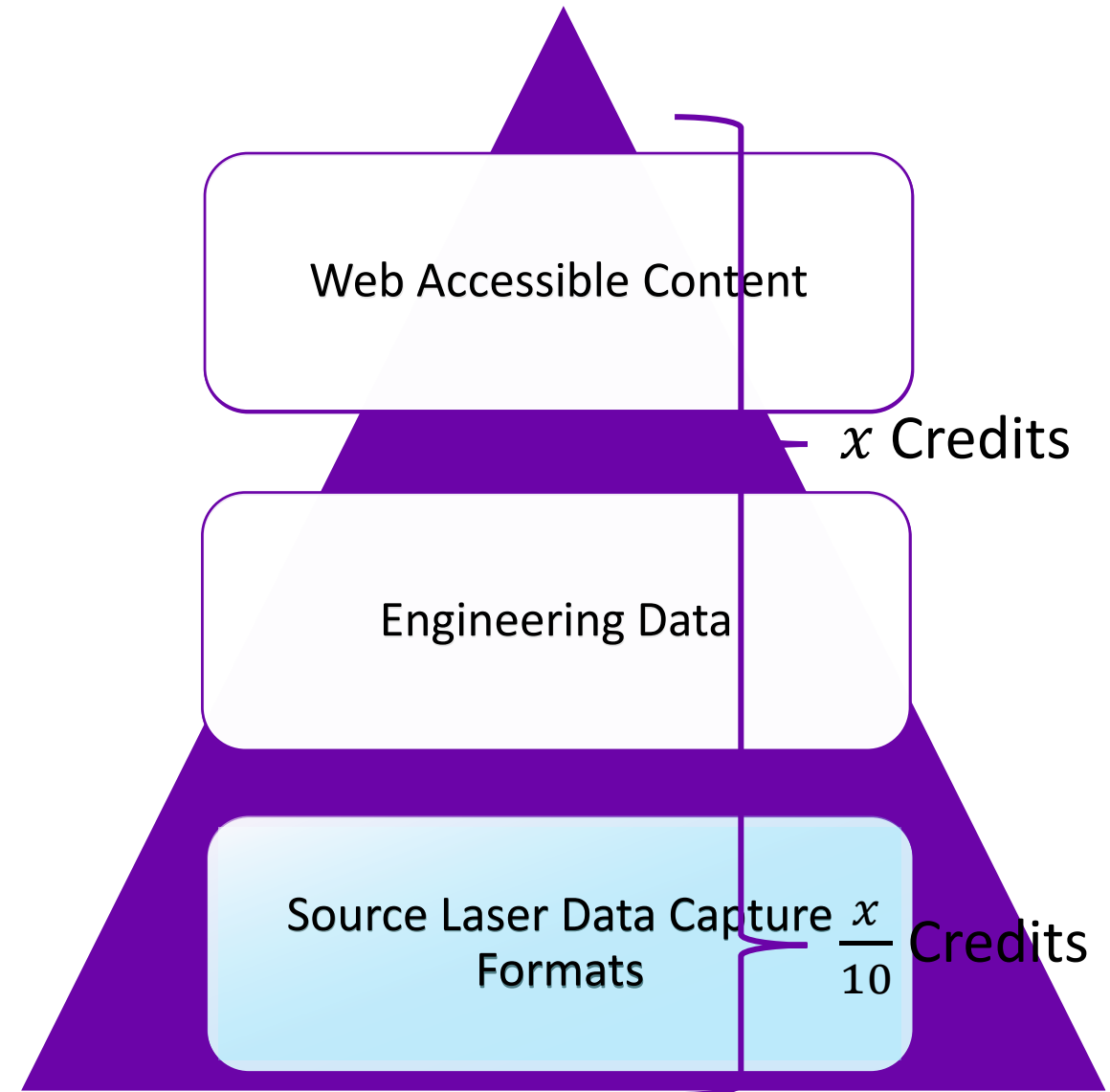
Laser scanning creates files that are GB in size.

A site is captured by 00's to 000's of laser scans.

This data is not used post-processing but is still valuable to keep.

The cost and time to manage the data can be significant.

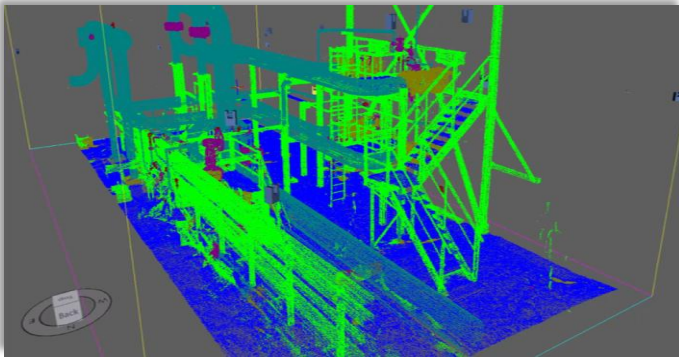
AVEVA provides a simple, low cost, managed storage environment to solve this.



AI Enhanced Point Clouds

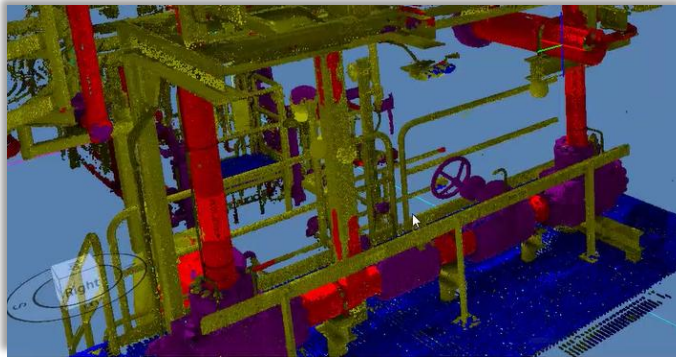
Intelligent Point Cloud

Classification



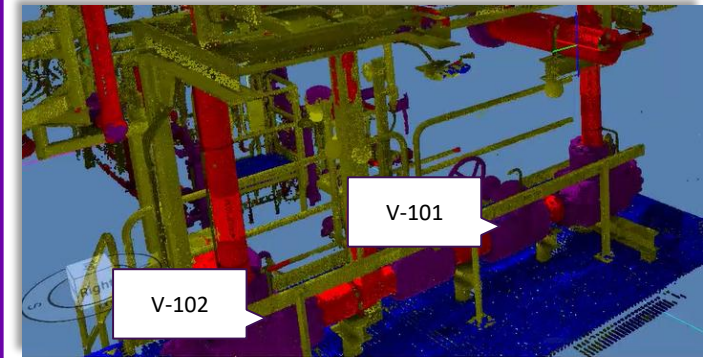
Understand the industrial 'class' of object that the point cloud geometry represents

Instancing

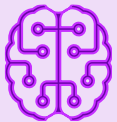


Find the boundary of individual classified regions to create distinct objects

Tagging



Tag and label point cloud geometries – and match to known engineering data



Pre-trained AI Industrial Classification Model

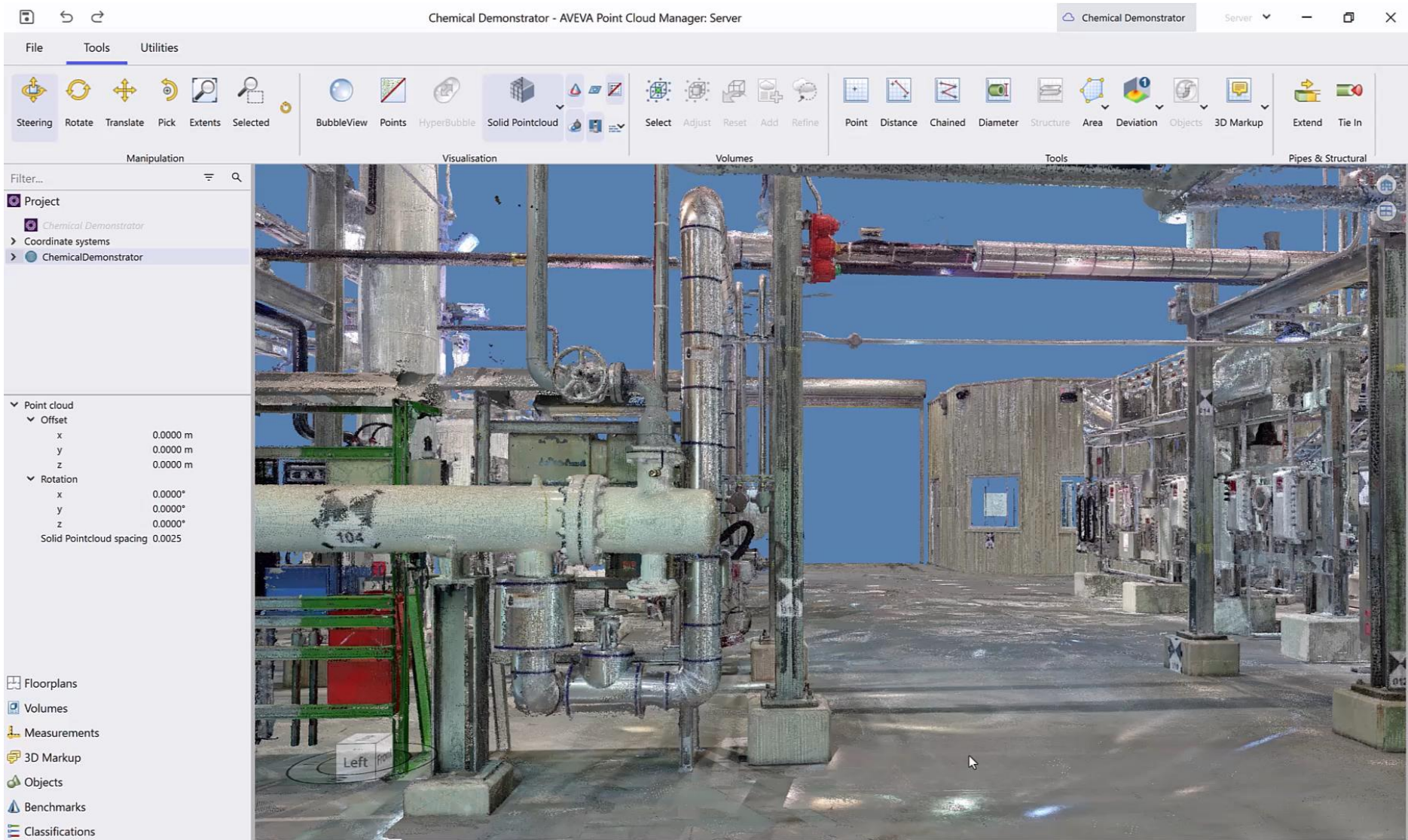
Combine AI with Digital Twin Data

AI Enhanced Point Clouds for Digital Twins

Asset Spatial Location Tagging

AI Classification Result Visualization

Integrated with asset information & data



Visit Us!

Stop by these booths in the innovation zone for demos and additional information:

3D visualization and extended reality

- **Booth XR**

Build the foundation of a trusted digital twin

- **Booth D&B4**



This presentation may include predictions, estimates, intentions, beliefs and other statements that are or may be construed as being forward-looking. While these forward-looking statements represent our current judgment on what the future holds, they are subject to risks and uncertainties that could result in actual outcomes differing materially from those projected in these statements. No statement contained herein constitutes a commitment by AVEVA to perform any particular action or to deliver any particular product or product features. Readers are cautioned not to place undue reliance on these forward-looking statements, which reflect our opinions only as of the date of this presentation.

The Company shall not be obliged to disclose any revision to these forward-looking statements to reflect events or circumstances occurring after the date on which they are made or to reflect the occurrence of future events.

 [linkedin.com/company/aveva](https://www.linkedin.com/company/aveva)

 [@avevagroup](https://twitter.com/avevagroup)

ABOUT AVEVA

AVEVA is a world leader in industrial software, providing engineering and operational solutions across multiple industries, including oil and gas, chemical, pharmaceutical, power and utilities, marine, renewables, and food and beverage. Our agnostic and open architecture helps organizations design, build, operate, maintain and optimize the complete lifecycle of complex industrial assets, from production plants and offshore platforms to manufactured consumer goods.

Over 20,000 enterprises in over 100 countries rely on AVEVA to help them deliver life's essentials: safe and reliable energy, food, medicines, infrastructure and more. By connecting people with trusted information and AI-enriched insights, AVEVA enables teams to engineer efficiently and optimize operations, driving growth and sustainability.

Named as one of the world's most innovative companies, AVEVA supports customers with open solutions and the expertise of more than 6,400 employees, 5,000 partners and 5,700 certified developers. The company is headquartered in Cambridge, UK.

Learn more at www.aveva.com